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PHOTOGRAPHIC INTERPRETATION REPORT

SSM LAUNCH FACILITIES SHUANG-CHENG-TZU MISSILE TEST CENTER CHINA

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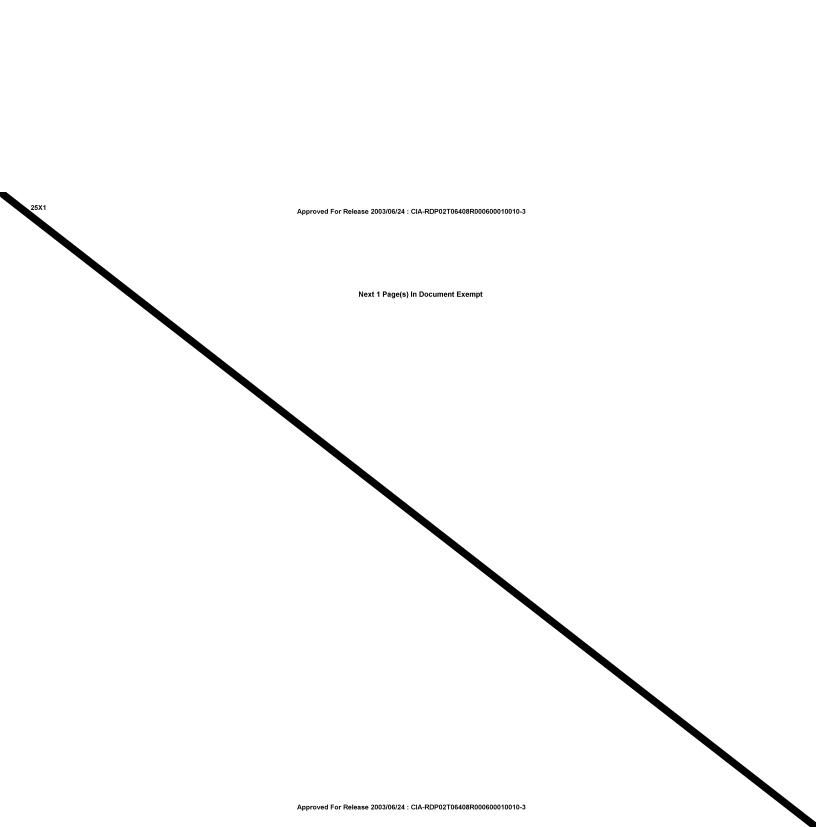
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	DATED FEBRUARY	1967	
On page 5, Figure A	-3, add:		
On pages 6 and 7, F	igures A-5 and A-6, Mi	ission should be	instead of
On page 13, Figure Early construction.	B-2, change caption to	read: FIGURE B-2.	COMPLEX B.
On page 18, 3d colushould read: A buried of	mm, 2d paragraph (1st conduit or line also ru		
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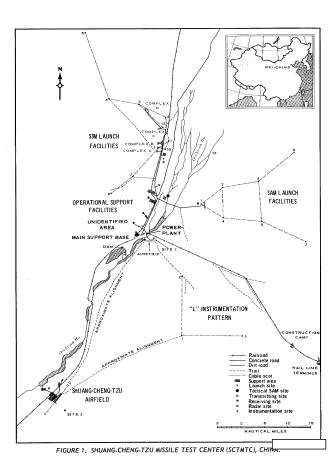
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PHOTOGRAPHIC INTERPRETATION REPORT

SSM LAUNCH FACILITIES SHUANG-CHENG-TZU MISSILE TEST CENTER CHINA

FEBRUARY 1967

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



INTRODUCTION

The SCTMTC, located in northwestern China at $41\text{-}05\,\text{N}$ $100\text{-}15\mathrm{E}$, contains provisions for at least 2 and probably 3 types of missile systems from its 4 launch complexes. Launch Complexes A and D appear to be for an MRBMtype missile, while Launch Complex $\ensuremath{\mathsf{B}}$ was constructed for a more sophisticated system probably in the $\ensuremath{\mathsf{ICBM}}\, or$ space class. Launch Complex C was apparently designed for cruise missiles, and the purpose of the new pad, constructed during 1965-1966, is yet to be determined.

SUMMARY

This report, one of a series on the Shuang-cheng-tzu (SCTMTC), presents an analysis of the SSM launch facilities to show changes, additions, and activity since The user should secure NPIC Report NPIC/R-1065/64, for a description of facilities as they existed in During this time frame, 1962 through 1966, additions have been made to Launch Complexes A and C, and $2\,\mathrm{new}\,\mathrm{launch}$ facilities have been constructed: Launch Complex B and Launch Complex D.

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25X1 LAUNCH COMPLEX A	a revetment was added off the southwest corner of the pad adjacent to the previously	tures have never been added to the 4 poles around the pad. Another firm indicator of activity, a missile launch, is
Launch Complex A, located at 41-14N 100-17E, is a southernmost of the 4 SSM launch complexes and w complete when first seen in It has been a most active in terms of observed equipment and exercis of the SSM launch complexes. It consists of 2 road-server R & D-type launch pads, and a checkout area local approximately 0.5 nautical miles (nm) to the rear (Figure 1).	(Figure A-4). A similar conduit or cable was seen on Launch Complex D in extending from the launch position to the bunker/reverment off the southwest side of the pad, one of the comparisons between the 2 sites.	revealed by the second approximately 80-foot-diameter crater at the SCTMTC rangehead. This crater is located approximately 3.5 nm downrange, due west of Launch Complex A (Figure A-8). This crater can be negated on was first evident on coverage (Mission 25X). The first 80-foot crater appeared between approximately 2,165 feet north of pad A-1.
A-1), east of the launch pads. The 2 launch pads, A-1 a 25X1 A-2, south to north, are a direct, though enlarged, derive tion of Launch Area 1C at the Kapustin Yar/Vladimirov Missile Test Center in the USSR 1/ and probably al Launch Area 3C at the same missile test center.	the major change noted in facilities at Launch Complex A was the enlargement of the garden plots between the pads. The launch area when last observed in (Figures A-5 and A-6) appears to be an active facility.	On 8 occasions (Table A-1), all on small-scale missions, indications of erected missiles have been present on Launch Pad A-1. These range from 3 confirmed missiles, 2 probable, 2 possible, and 1 suspect. Mensurations obtained on the 3 confirmed missiles give
A major modification was made to Launch Pad A between (Figure A-2). During this time an approximate for foot extension was added to the forward edge of pad A giving a total length of approximately 275 feet; the acce	period through has been in terms of observed equipment and exercises at this complex, rather than the modifications or changes to the facilities.	heights of 70, ± 10 feet. Considering that the missile is standing on a launch stand of probably 5 feet in height the length of the missile apparently equates to the length of the transporter-erector measured at Launch Complex D and the
25X1 road to the pad was slightly enlarged and the intersect angle was rounded off; a protective bunker/revetment w	on A-1 a piece of equipment, later identified as a mobile gantry crane (Figure D-4), was observed in the	Launch Complex A Checkout Area This compares with the approximate 1:1 ratio of the
relocated, as was a light pole, and 2 towers were added to not new launch points were also constructed on the program of the original launch point. The first evidence	ad this piece of handling equipment, which has subsequently of been seen on several occasions in the A checkout area as	length of German A-4 (V-2) missile to its transporter- erector (Meilerwagon), and the Soviet SS-2 missile to its transporter-erector,
use of either of these newer launch points was in when burn scars indicative of a firing we present at the center launch position and a probable laur	•	Other identifiable ground support equipment observed at Shuang-cheng-tzu, mobile gantry cranes and transporter- trailers, was used with the German A-4 (V-2) and Soviet
stand was at the forward position (position 3, Figure A- 25X1 Later reveal burn scars at both newer launch positions (positions 2 and	checkout Area, Launch Complex A, by date of photography	SS-2 systems. Thus, from photography, it appears that the Chinese have been testing a missile at the SCTMTC which has the approximate length of the Soviet SS-3 missile,
P5X1 Figure D-3). No change was noted to the original laur position (position 1, Figure D-3). During the period between	, (9 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	but have been handling it with ground support 25X equipment of V-2 and SS-2 technology. 25X 25X 25X 25X

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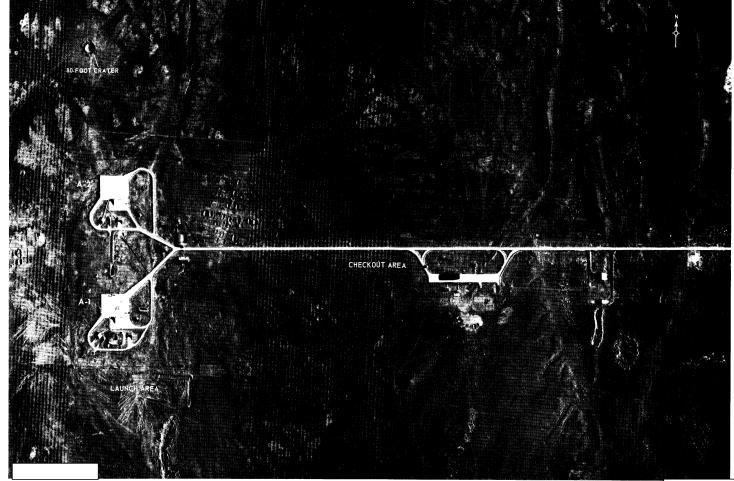


FIGURE A-1. COMPLEX A, SCTMTC.

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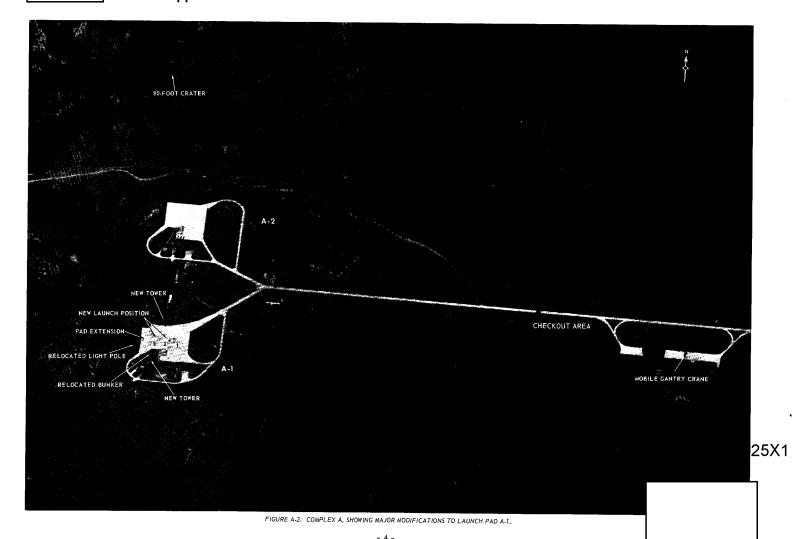
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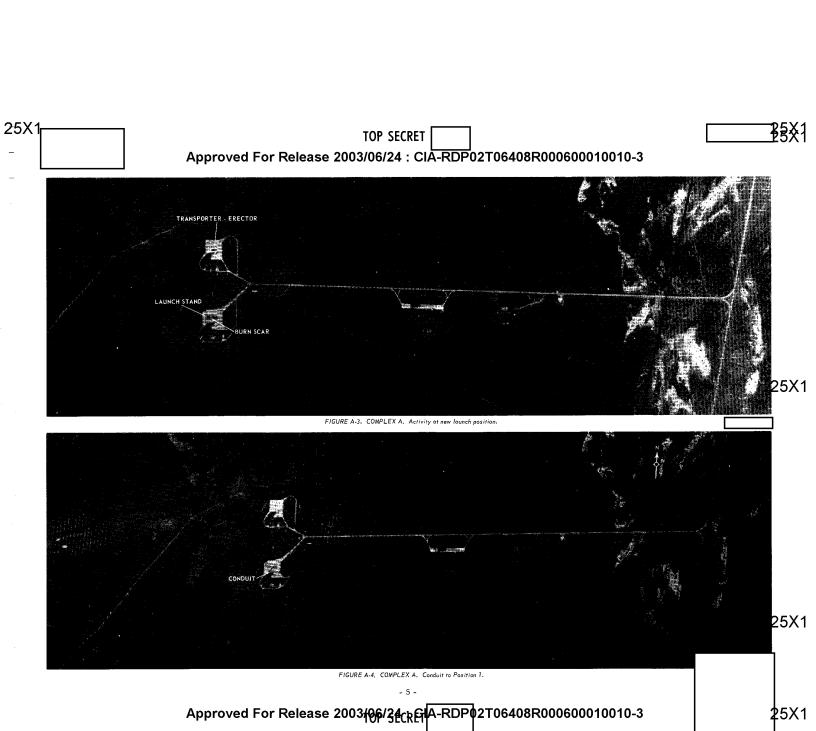
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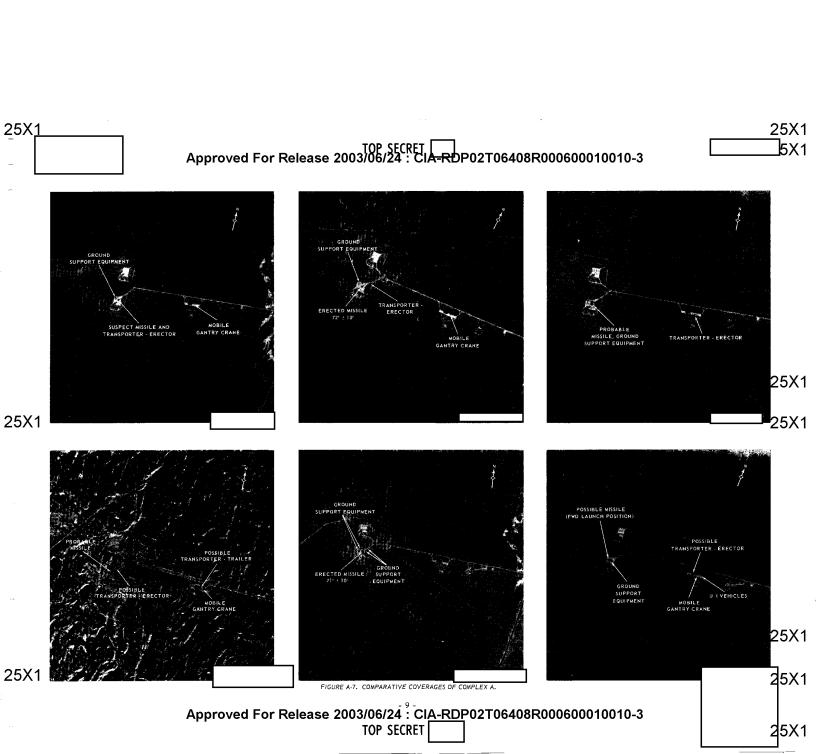
Date	Mission	Launch Area A	Checkout Area	Date	Mission	Launch Area A	Checkout Area	Date	Mission	Launch Area A	Checkout Area
		No activity or equip	No activity or equip			No activity	No activity			No activity	Mobile gantry crane
		No activity or equip No activity or equip No activity or equip No activity or equip	No activity or equip No activity or equip Transporter-erector No activity			No activity No activity	No activity No activity			No activity No activity Transporter-erec-	No activity No activity Mobile gantry crane
		2 U/i vehicles pieces of equipment	Transporter-erector; mobile gantry crane			Prob missile; poss transporter-erec-	Mobile gantry crane; poss transporter-			tor; suspect mis- sile and ground support equip	
		Identification only	Identification only			tor (2 d crater present)	trailer No activity			No activity	U/I V/PE
		Poss missile on fwd launch point	Poss transporter-trail- er; mobile gantry crane; 2 U/I vehicles/			Cloud covered (2 d crater negated) Identification only	Cloud covered			No activity No activity	No activity No activity
		U/I V/PE (vehicles on road between	pieces of equipment Mobile gantry crane (raised)			Identification only 2 revetments present	Identification only Identification only No activity			Addition to pad	Mobile gantry crane
		checkout and launch area) No activity	Poss V/PE partially in			near A-1 Poss transporter-erec- tor on pad approach	Mobile gantry crane			Missile 70' ±10' ground support equip	Mobile gantry crane
		2 poss V/PE	checkout bldg Poss mobile gantry crane			Poss transporter-erec- tor on pad approach	Mobile gantry crane			U/I V/PE	Mobile gantry crane U/I V/PE
		Poss missile on fwd launch point	No activity			No activity No activity	No activity No activity			No activity	No activity
		No activity Identification only	No activity Identification only			Cloud covered U/I V/PE	Mobile gantry crane No activity			No activity	No activity
		No activity	No activity			No activity	No activity			No activity	No activity
		Identification only No activity Missile	Identification only No activity No activity			No activity	Mobile gantry crane			Small u/i equip (first crater present)	No activity
		Transporter-erec-	,			No activity	No activity			Small u/i equip	No activity
		tor & support equip on pad (equip in field				No activity	Mobile gantry crane; poss transporter-erec- tor			(first crater negated)	
		instr site near #13) Burn scar on center	No activity			No activity	No activity			No activity	No activity
		launch position; launch stand on	The activity			Prob missile and all ground support equip	Transporter-erector			No activity Impression of dark-	No activity No activity
		fwd position; trans- porter-erector on Pad A-2				Missile transporter-erec-	Mobile gantry crane			ness at center of Pad A-1	
		No activity	No activity			tor pulled away from missile, all		1			
		No activity Conduit-cable on A-I	No activity Poss contaminant stains			ground support		1			
		3 small u/i on A-1	ross contaminant stains			equipment present	No activity	1			
			Toss contaminant status			No activity	No activity			J	

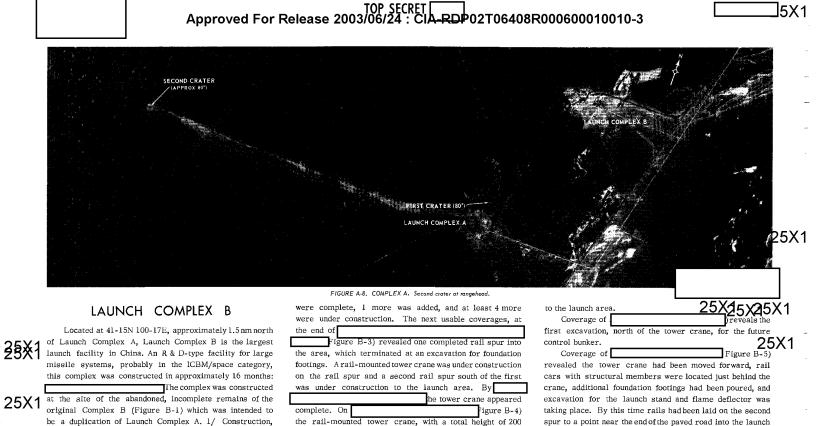
NOTE: V/PE is abbreviation for vehicles/pieces equipment.

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25X1

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feet and boom pivot point at 160 feet, was complete, and foot-

ings for the tracks for the missile gantry were being con-

structed in a modular or building block concept; a concrete

members parallel the end members. At this time only 2

such units were emplaced, although additional footing ex-

cavations were dug. A buildup of construction support

camps and stockpiles of materials was also present. Rails

had not yet been laid on the second rail spur, even though

the rail bed appeared to have been finish graded almost

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with 2 center cross

base or framework 120 feet long by approximately

with a center-to-center width of

25X1

however, was terminated in an early- to mid-stage and the

complex was abandoned by the time of the first photographic

vealed 3 buildings under construction just north of the end

and the beginning of a new rail line heading north from its

previous terminus near the revetted storage areas. By

when 3 small pyramidal tents were noted in the area.

25X1 of the paved road originally constructed to the launch area,

The area remained

Figure B-2) the 3 buildings

coverage in

inactive until

next coverage of

25X1

25X1

5X1

area. A further buildup was noted in construction support

camps, motor pools were present, first evidence of the

water storage tanks under construction was seen, 2 probable

barracks-type buildings were under construction along the

access road, and a general appearance of very rapid

was noted and rail cars were observed on the second

Figure B-6) the gantry had reached a height of approximate

the first evidence of the gantry

25X25X<u>25X125X25X</u>25X1

On the repetitive coverage mission in

construction was noted.

(southern) rail spur. By

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25X1			25X 25X1 25X1
-	The first look at the footings for the probable	under construction. The concrete sidewalls of the flame	25X125X125X1 25X125X125X1 25X125X1 25X1
25X1	apart. Two facilities, the future propellant facilities, were under construction along the second rail spur. One	pit extending from the launch position were probably curing, as a light covering, such as canvas, was over the pit, and earth had not been backfilled against the sidewalls. The next coverage of	gantry has been scaled down to et. It is felt that this measurement is more accurate than the 195-foot height obtained on photography (Mission Measurements obtained from
25X1	of the water tanks had been capped and side walls were being constructed on the second. The rail line serving Launch Complex B, which had terminated just north of the access road to B, showed signs of further extension. The buildup of a construction camp was noted east of the Launch	showed that the gantry had been moved forward (possibly to concrete surface the transfer point) and back on the transfer point on coverage. The covering was removed from the top of the flame pit and earth had been backfilled against the pit sidewalls. The first evidence of	coverage are expressed in Figure B-8 and Table B-1. On this coverage the gantry was forward over the launch position, concealing its completed appearance, and an empty missile transporter approximately 60 feet long was on the year of the launch and between the contract while in the
25X1	Complex C access road and rail bed construction was noted to the north. On the last usable coverage, index camera photography	construction clean-up was also noted on this mission with the removal of some of the construction camp tents from the area. Monoscopic imagery of poor interpretability on	the rear of the launch pad between the gantry rails in the same position as the approximately 70-foot object was located on Not shown on Figure B-8 are 2 permanent-type administration by racks. Buildings that are flow received single Table
25X1	of Launch Complex C, and additional indications of extension were noted heading toward a probable agricultural commune, border outpost, and weather station approximately 50 nm	although severely limiting readout, did reveal that the launch complex was apparently complete. Concrete had been poured on the	tration-barracks buildings that are flat roofed, single 25X1 story and measure 130 At least 10 small vehicles were parked in front of the larger building on coverage and a crane is on the road in
25 ×1	north-northeast of the center. The next evidence of additional construction was on coverage of when the gantry appeared complete and the control bunker had been	gantry stand, the launch pad, and the pad approaches. The earth around the control bunker north of the pad had been smoothed off, the water storage tanks were complete and earth mounded; on the loop road system, the access roads	front of this same building. Operation at this complex would appear from photography to have the missile brought into the gantry by standard gauge (Chinese) rail line. The missile will then be raised into the gantry in an erected
25X1	capped. The tower crane was apparently dismantled by this time. These items were verified on the of At this time the gantry	between the second rail spur and the launch pad appeared complete and hard surfaced, the trenches from the 2 propellant handling and storage facilities within the loop	position, probably by the crane mechanism on the rear of the gantry and then transported approximately 625 feet by 25 X1 the gantry to the launch position where fueling will take
25X1	(Figure B-7) measured approximately 195 feet high, feet wide at the top, and wide at the base. The open working space was approximately 140 feet in height, with	roads at the second rall spur to a point near the launch position were backfilled, and the visible portions of the launch area presented a generally "cleaned-up" appearance.	place. The presence of the 2 larger diameter water storage tanks and the much larger pumphouse indicate that a "wet down" system will probably be
	a width of 25 feet. Earth had been piled around the control bunker, the 2 water storage tanks had both been capped, concrete was being laid on the pad approach and surface, a loop road system was being constructed from the second rail spur to the launch pad, and open ditches extended from 2 facilities under construction later identified as propellant handling and storage facilities, near the second rail spur to a point near the launch position which was	The gantry had been rolled forward approximately one-half the distance to the launch position, and an unidentified object approximately 70 feet long was on the rear of the launch pad between the gantry rails. The status of construction of the actual launch point was undetermined. Photographic coverage of	If alignment and azimuth of the launch facility have any direct bearing on launch azimuth, the azimuth derived from the layout of the facility is egrees. This azimuth, if extended from the launch point, would extend into the Indian Ocean after crossing over China and India. The range to the Indian Ocean would exceed 2,400 nm.
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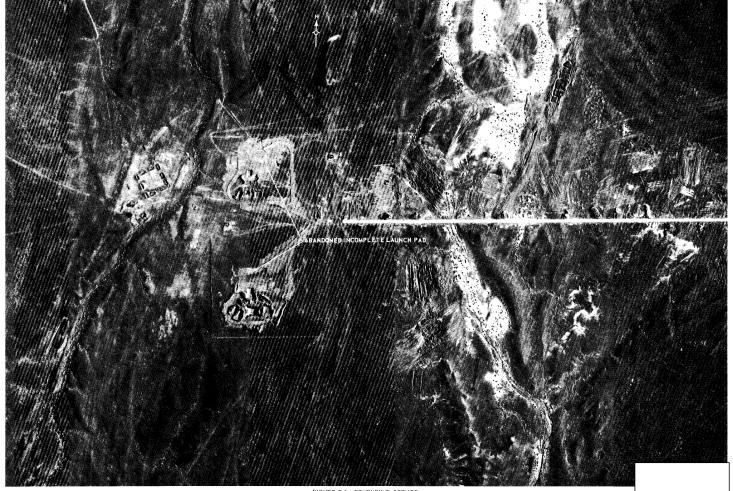


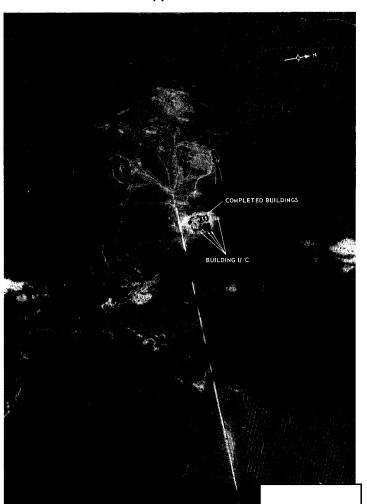
FIGURE B-1. COMPLEX B, SCTMTC.

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FIGURE B-2. COMPLEX B. Construction stages shown

FIGURE B-3. COMPLEX B. Rail spur completed into area.

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FIGURE 8-5. COMPLEX 8. Appearance of flame pit exca

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 ${\it FIGURE~B-6.} \>\>\> {\it COMPLEX~B.}\>\>\> {\it Gontry~under~construction.}$

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FIGURE 8-7. COMPLEX B. Gantry completed

25X1

Table B-1 Laurah Complex B. (Versed to Figure B.9)

					• • • • • • • • • • • • • • • • • • • •		
Item	Description	Size	Remarks	Item	Description	Size	Remarks
1	Gantry Top Base	high 70' x 30'	across, 40' width of	12	Bunker Main section Entryway	Total langth	This bunker is most similar to Item 6. There is also a side entry and the road widens at this point.
2	Open space Travel mechanism Travel distance Launch pad	25' wide 725' max Length 175' Width	Possible cab on forward portions 625' center to center Length taken to center line of the gantry which obscures forward edge	12a 13 13a 14	Electric power sub station Flat-roofed structure U/I facility Possible platform	Width 15'	Terminus of power line into the area. A flat-topped conical struc-
3	Flame pit	30' wide At least 70' long (unknown depth)	of pad. Gantry rail sep- aration Gantry obscures rear por- tion of flame pit	15 15a	Bunker Entryway Possible electric power substation	Length 20'	ture or bunker. See also Items 7, 9, 10 Probably used during construction phase.
4	Transfer point Rail overlap		Gantry and standard gauge rails	16	Flat-roofed building Main section	Length 40'	Single story with 2 wings
5	Control bunker	(max)	Concrete cap Outer edge of bunkered earth		Wing		
5a 6	U/I facility Bunker Entryway	Length 70'		17	Gable-roofed pumphouse	Length 60°	There may be some earth bunkering on the side of the building facing the launch position.
7	Bunker	Width 20'	One of 4 similar type bunkers (Items 7, 9, 10, 15)	18 & 19	Earth-bunkered water-storage tanks	(max)	These may be supplied from a water tower along the access road with a top tank diam of and a height of 50 feet.
7a 8	U/I facility Purge sump Individual	80'	A typical purge sump par- titioned into 2 equal sec- tions. The foundations for a possible pump/filter	20	Propellant facility Earth-bunkered		Also at this facility is a stack approximately 50' tall, a small above-ground tank, and a possible entryway.
9	Bunker		station are located approx. 1/2 the way to the launch position. See also Items 7, 10, 15	21 22	Earth-bunkered dome Propellant facility Earth-bunkered		This may be a portion of Item 20. Also at this facility is a stack approximately 50.
10 10a	Bunker U/I facility	Width 15' Length 25' No measurement	See also Items 7, 9, 15				tall, a small above- ground tank, and a pos- sible entryway. An under- ground line connects this facility with the sump, Item 23.
11	Gable-roofed building Flat-roofed section	Length 40'	This building is protected on 3 sides by an earthen embankment.	23	Sump		A typical 2-partitioned sump.

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omplexes. Apparently constructed for cruise missiles, / it was complete when first observed in Maior addition and modification took place between the same time period as the construction of Launch Complex B. A new pad approximately 50 by 75 feet was constructed approximately 325 feet north of the original launch pad and a probable service tower pproximately 65 feet high was constructed on the pad. This new pad has an approximate azimuth of long its long axis. At the same time, support facilities it within the launch area were augmented by the addition of arracks-type buildings, heat plant, water supply facilities, and garden plots. Prior to this an addition had been made to the south-ast corner of the original pad. This addition, measuring 0 by 20 feet (Figure C-2), was apparently complete by and can be negated on coverage. One of the light poles, the one in front of the new addition, was emoved at the same time. The purpose of this addition as not been explained but it does not appear to have any onnection with the major modification begun in 1965. The first evidence of construction for the major modification was observed on coverage when a foundation for a new support building moverage when a foundation for a new support building mas ompleted and additional scarring was noted in the area. Coverage the building was ompleted and additional scarring was noted in the area. The support section of the launch area and some scarring was noted at the future pad location. 4 trucks ere on or near the old launch pad and a new irrigation in the was visible in the support area in addition to 1 new	
October 17E, was the northernmost of the 3 original launch complexes. Apparently constructed for cruise missiles, / it was complete when first observed in the same time period as the construction of Launch Complex B. A new pad approximately 50 by 75 feet was constructed approximately 325 feet north of the original launch pad and a probable service tower pproximately 65 feet high was constructed on the pad. This new pad has an approximate azimuth of long its long axis. At the same time, support facilities within the launch area were augmented by the addition of arracks-type buildings, heat plant, water supply facilities, and garden plots. Prior to this an addition had been made to the south-ast corner of the original pad. This addition, measuring 0 by 20 feet (Figure C-2), was apparently complete by and can be negated on coverage. One of the light poles, the one in front of the new addition, was emoved at the same time. The purpose of this addition was not been explained but it does not appear to have any onnection with the major modification begun in 1965, the first evidence of construction for the major modification was observed on coverage when a foundation for a new support building moverage when a foundation for a new support building was ompleted and additional scarring was noted in the area. Coverage the building was ompleted and additional scarring was noted in the area of some scarring was noted at the future pad location. 4 trucks ere on or near the old launch pad and a new irrigation in the was visible in the support area in addition to 1 new into the control of the support area in addition to 1 new into the support area in addition to 1 new into the support area in addition to 1 new into the support area in addition to 1 new into the support area in addition to 1 new into the support area in addition to 1 new into the support area in addition to 1 new into the support area in addition to 1 new into the support area in addition to 1 new into the support area in addition to 1 new into the support ar	LAUNCH COMPLEX C
ring garden plots. Prior to this an addition had been made to the south-ast corner of the original pad. This addition, measuring 0 by 20 feet (Figure C-2), was apparently complete by and can be negated on coverage. One of the light poles, the one in front of the new addition, was emoved at the same time. The purpose of this addition as not been explained but it does not appear to have any connection with the major modification begun in 1965. The first evidence of construction for the major modification was observed on coverage when a foundation for a new support building and ground scarring were present. This is the same date hat the first activity at Complex B was noted. Coverage the building was completed and additional scarring was noted in the area. Y at least 10 ents were noted in the support section of the launch area and some scarring was noted at the future pad location. 4 trucks ere on or near the old launch pad and a new irrigation itch was visible in the support area in addition to 1 new	100-17E, was the northernmost of the 3 original launch complexes. Apparently constructed for cruise missiles, 1/ it was complete when first observed in Major addition and modification took place between the same time period as the construction of Launch Complex B. A new pad approximately 150 by 75 feet was constructed approximately 325 feet north of the original launch pad and a probable service tower approximately 65 feet high was constructed on the pad. This new pad has an approximate azimuth of
o by 20 feet (Figure C-2), was apparently complete by and can be negated on coverage. One of the light poles, the one in front of the new addition, was emoved at the same time. The purpose of this addition as not been explained but it does not appear to have any onnection with the major modification begun in 1965. The first evidence of construction for the major modification was observed on overage when a foundation for a new support building overage when a foundation for a new support building and ground scarring were present. This is the same date nat the first activity at Complex B was noted. Coverage the building was ompleted and additional scarring was noted in the area. The support section of the launch area and some scarring was noted at the future pad location. 4 trucks ere on or near the old launch pad and a new irrigation itch was visible in the support area in addition to 1 new	barracks-type buildings, heat plant, water supply facilities, and garden plots. Prior to this an addition had been made to the south-
emoved at the same time. The purpose of this addition as not been explained but it does not appear to have any onnection with the major modification begun in 1965. The first evidence of construction for the major modification was observed on the first activity at Complex B was noted. The major modification was observed on the first activity at Complex B was noted. The major modification at the first activity at Complex B was noted. The major modification at the first activity at Complex B was noted. The major modification at the first activity at Complex B was noted. The major modification at the first activity at Complex B was noted in the area, at least 10 at	50 by 20 feet (Figure C-2), was apparently complete by and can be negated on
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the first evidence of
agricultural activity was noted in the support portion along
the irrigation ditch. Coverage of
revealed the first evidence of construction activity
at the new pad site. The repetitive coverage mission
revealed
additional construction activity at the location of the new
pad. On the forward portion
of the pad had been concrete surfaced and the access road
from the original pad was being surfaced. By
the access road had been completed, and
a new concrete apron approximately 80 feet long had been
added on the southern side of the loop access road serving
the original pad; an approximately 50-foot tower was lo-
cated on this apron. Coverage of
revealed the remainder of the pad under construction
(Figure C-3), 3 new buildings were under construction
and the foundation for a fourth was visible. At least
12 tents were in the area. At this time measurements of
150 by 75 feet were obtained of the pad, and approximately
65 by 20 feet on the tongue projecting to the east. A cir-
cular ring with an inner diameter of 20 feet and an outer
diameter of was positioned approximately 120 feet
from the forward edge of the pad, and concrete surfacing
was taking place on the remainder of the pad. A small,
flat-roofed, unrevetted structure was also present next
to the newer pad on this coverage. Three probable light
poles were also present at the new pad. The small scale
of the coverage pre-
cluded a detailed analysis but it could be seen that construc-
tion was continuing on the buildings and a possible crane
was located adjacent to the circular pattern on the new pad.
On photography an unidenti-
fied object is positioned over the circular pattern and at
least 2 unidentified pieces of equipment are on the newer
pad. At least 4 vehicles are near the original control bunker.
Two towers or masts are on the new apron on the loop access
road. Tents were still present in the support area.
The photography of re-
vealed a probable service tower approximately 65 feet high

within the circular ring on the newer pad. This appeared to be of steel girder construction with heavier members or construction at the base and some type of mechanism at the southwest quadrant of the circular ring. This heavier framework extends upward approximately 40 feet on 3 sides but apparently does not extend on the forward side. At least 4 vehicles/pieces of equipment were also located on the pad. There were still 12 tents in the area. The 3 large buildings previously observed under construction could be seen to be barracks type and were complete. I the launch area was less active; 3 tents remained on and only 1 was left by Coverage of Figure C-4) revealed the area as probably completed. A trench from the small structure next to the new pad to the hiproofed 60- by 40-foot building, which was one of the original support buildings, was observed. A buried conduit or line also runs to Instrumentation Site 11. Figure C-5) the new pad at Launch Complex C appeared complete, although no security fence had been constructed. The probable service tower had not changed from its appearance on and the only noticeable difference in the support area was in the completion of all buildings present and the removal of all tents. No security gate or fence across the complex road was present.

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No changes or modifications to the C Checkout Area were noted, although tents and small vehicles were observed on several occasions.

It can be noted that the access to Launch Complex D branches off the road to C just prior to entering the C Launch Area. This would allow the C Checkout Area to be utilized for missiles tested at D if desired. At present, no function can be ascribed to Launch Complex C. The new pad at C, while having a probable service tower and the general appearance of a launch pad, does not have the usual "across pad" access or earth-mounded control bunker.

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FIGURE C-2, COMPLEX C. Addition to original pad.

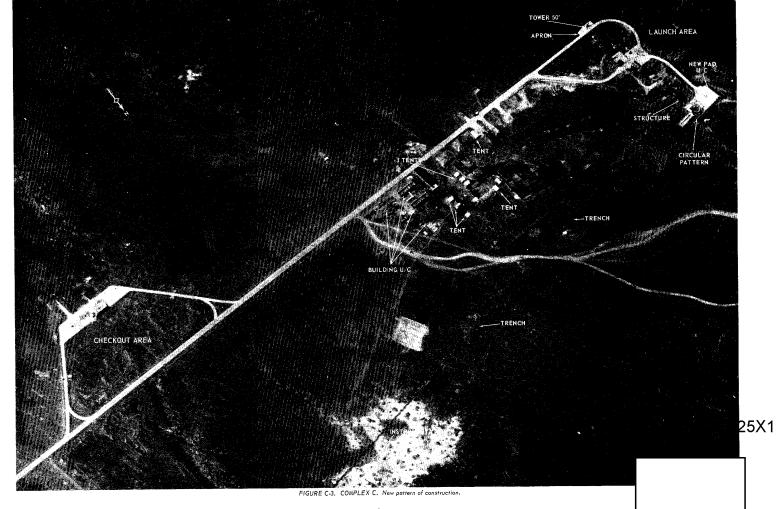
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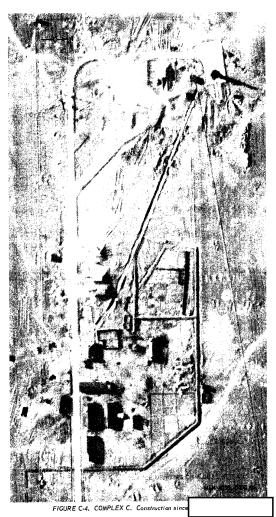
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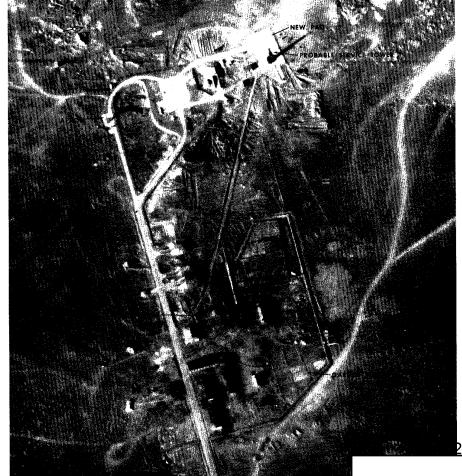


FIGURE C-5. COMPLEX C. Showing present status.

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		elease 2003/06/24 : CIA-RDP02T06408I	R000600010	010-3				25X1
25X1 25X1 25X1 25X1 25X1 25X1 25X1	road-served launch position, a loop road pattern, a control bunker, protective revetments, an electric power substation,	The probable loading access through the launch pad at Launch Complex D is on an azimuth of approximately 235 degrees, which equates to the approximately 230-degree loading azimuths of Launch Complex A. Equipment and activity observed at Launch Complex D on photographic coverage included atransporter-erector which measured This piece of equipment has the same configuration as the transporter-erector utilized with the German A-4 (V-2) system (Figure D-3) and the Soviet SS-2 system, although it is approximately 20 feet longer than ones utilized with the A-4 (V-2) system and 10 feet longer than the one used with the SS-2 system as observed at the Kapustin Yar/Vladimirovka Missile Test Center in 1959. 2/ Two mobile service cranes, which were also common to the German A-4 (V-2) (Figure D-4) and Soviet SS-2 systems were also observed, one in an erected position and one in a lowered traveling mode. These cranes were utilized by the Germans for transferring the missile from the transporter-trailer (Vidalwagon) to the transporter-erector (Meilerwagon). They are also probably capable of being used for warhead mating. An empty transporter-trailer approximately long was also observed parked along the road leading to the launch area. These transporter-erectors have also been identified in Launch Complex A on both launch pads, in the checkout area (Figure D-5) and in the SSM Housing and Support Area motor pool. The mobile gantry cranes have been identified on numerous occasions in the Launch Complex A Checkout Area (Figure D-5) and the transporter-trailers have been identified in SSM-Housing and Support Area, and the SSM section of the SSM-SAM Assembly and Checkout Area.	as possible monitor The control the launch positic tified object on to launchings. If selected as the of China's report following reasons 1. The ext following reasons 2. The lack following reasons 4. The plack line" of separate launch following reasons 5. The abs 6. The amodevices 7. The abs devices, to the everable D-1. Company	toring devibunker who has an app, probability a launch most likelted missile Launch C so tremely retremely	ich is approximity also us complex y candida-deliver omplex I apid rate apid rate apid rate concess from the complex SM ice of 4 aunch Concurity fel inpment and concurity fel inpment and complex in complex in a company in the compa	ately ed for obsert at SCTM ate for the ed nuclear of would be close of constructive roads on the suppolex forward launch comming from mplex Concing. and probable in coverages	unide ving miss covered to launch part launch part launch part launch part launch part facilities of the "final part launch pa	en- sile be be oth C4) the 25X1 des. ring and rest ring est. ring
25 X1	(2 and 3) on Launch Pad A-1, as observed on photo coverage Other components which can be compared to Launch Complex A include the bunkers/revetments off the edge of the pad at D which can be equated to the 2 revetments off Launch Pad A-1, and the conduit, previously discussed in Launch Complex A, from the launch position to one of these bunkers/revetments.	Table D-1 gives comparative mensuration of the equipment observed at Launch Complexes D, A, the SSM Housing and Support Area, the Assembly and Checkout Area, the SS-2 equipment observed at the Kapustin Yar/Vladimirovka Missile Test Center, and the German A-4 (V-2) equipment. A row of 21 small probable monitoring devices was positioned just north of the launch position. At least 4 more objects, all under 10 feet square, may have been utilized	SCTMTC SSM Housing & Support Area SCTMTC SSM Assembly & Checkout Area KY/Vlad MTC Launch Complex G (SS-2) German A-4 (V-2)					

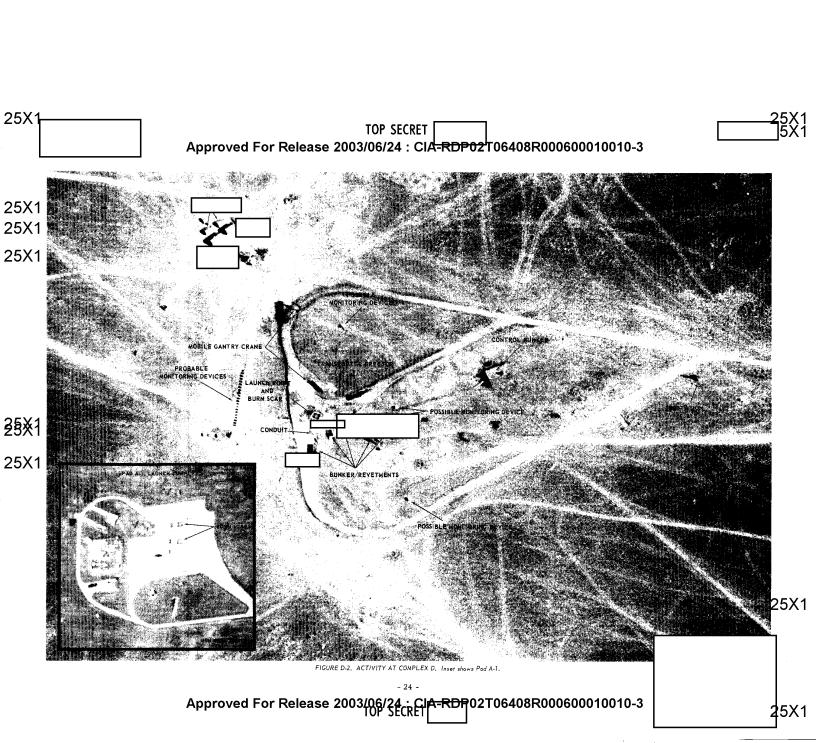
FIGURE D-1. COMPLEX D, SCTMTC.

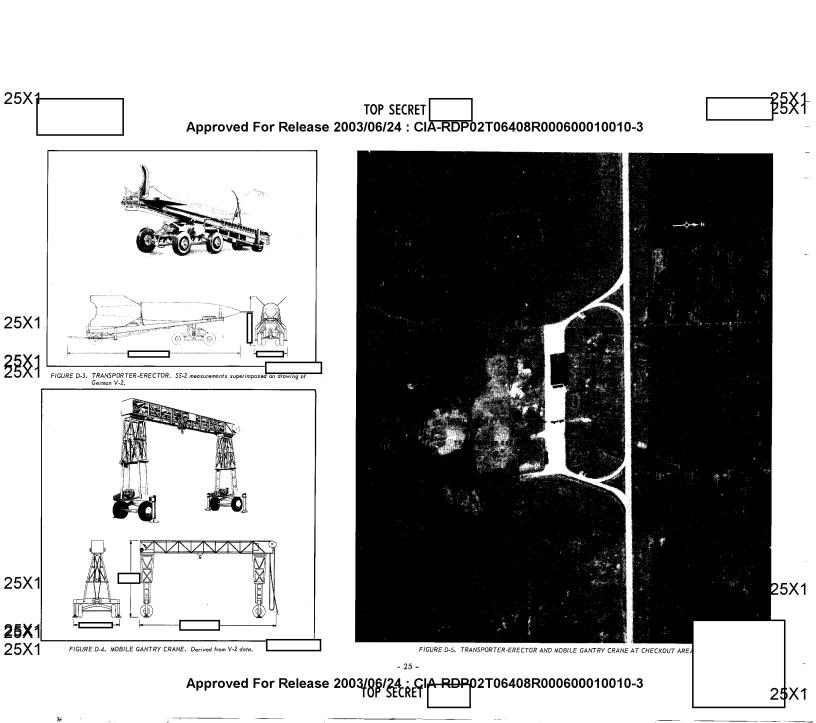
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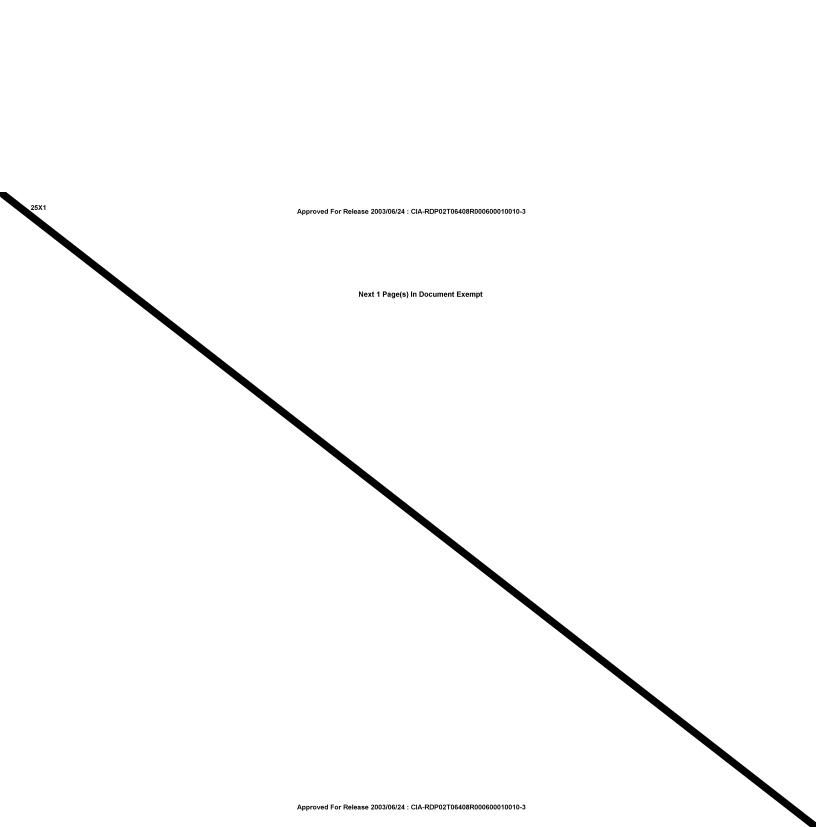
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DOCUMENTS	
 NPIC. R-1065/64, Shuang-cheng 4zu Missile Test Center, China, Jan 64 (SECRET- CIA. PIC/JR-1006/61, Launch Complex "G" Surface-to-Surface Missile Facilities Kanustin Yar/V ladimirovka Missile Test Center, USSR, Mar 61 (SECRET) 	25X
REQUIREMENT	
GMAIC. 4-67	
NPIC PROJECT	
11105/67 (partial answer)	

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